

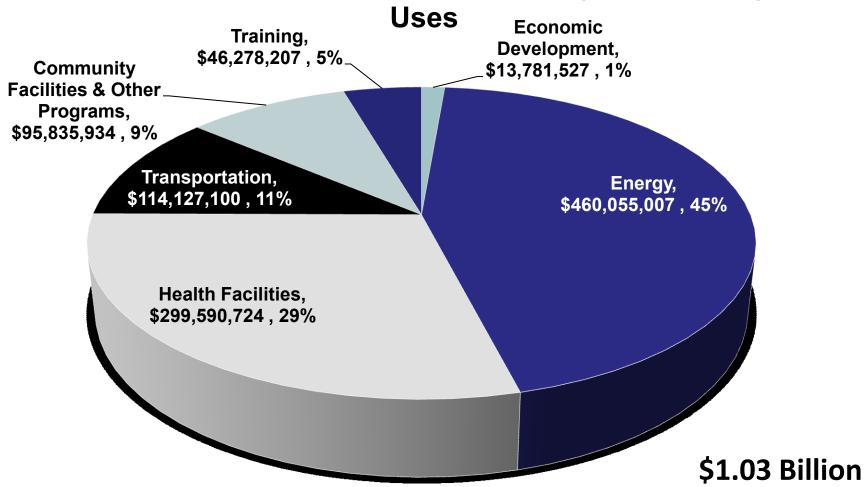


The Denali Commission is an independent federal agency, created in 1998 to provide critical infrastructure improvements in rural Alaska

Programs

- Energy Program
- Health Facilities Program
- Transportation Program
- Training Program

FY99 - FY10 Denali Commission Program Funding





DENALI COMMISSION



Rural Power System Upgrades

(RPSU)





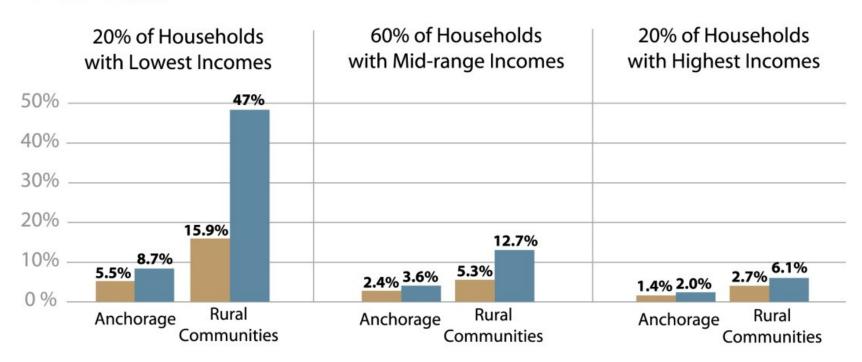


DENALI COMMISSION



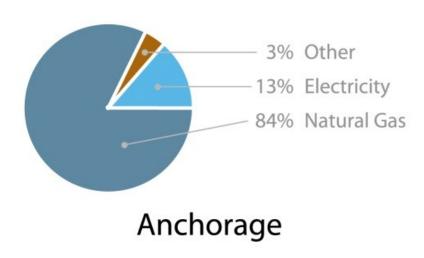
Estimated Median Share of Income Alaska Households Spend for Home Energy Use

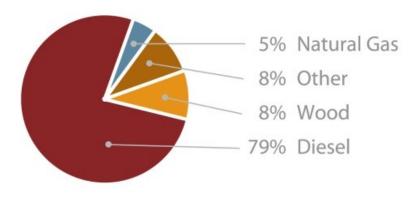
2000 2008





How Alaska Households Heat Their Homes Using Various Energy Sources





Rural Communities

Alternative and Renewable Energy



Co-funded wind-diesel power systems in Selawik, Kasigluk, Toksook Bay, Gambell, Savoonga, Chevak, and Hooper Bay.



Emerging Technologies

2009 Projects

- Seawater Heat Pump Demonstration Project
- Psychrophiles for Generating Heating Gas
- Feasibility of Solar Hot Water Systems
- Flow Battery Energy Storage Systems
- Wales Diesel-Off High Penetration Wind System
- Nenana Hydrokinetic Turbine
- Commercial Scale Wood Pellet Fired Boiler
- Organic Rankine Cycle Heat Recovery System
- High Penetration Hybrid Power System

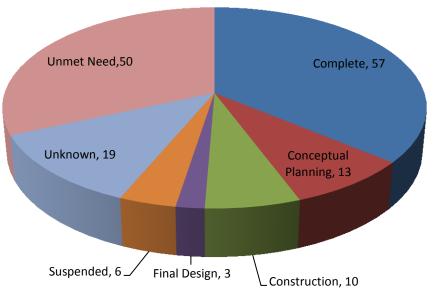
Partnering with State of Alaska to fund the Emerging Energy Technology Fund at \$4.8 million.



Project Process

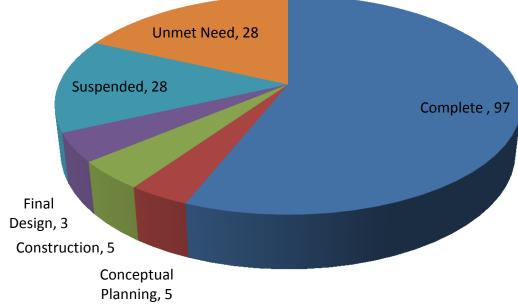
- Developed a Universe of Need database for bulk fuel and RPSU programs
- Program partners: Alaska Energy Authority and Alaska Village Electric Cooperative
- Renewable energy and emerging energy technology projects selected through solicitation process.

Universe of Need



RPSU Universe

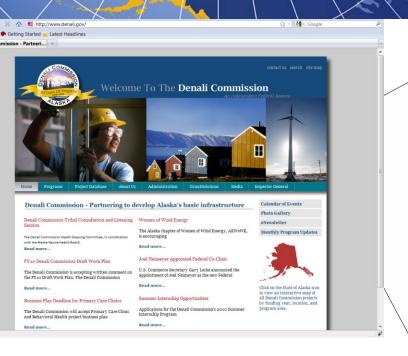
Bulk Fuel Universe



What Makes a Project Successful?

- Sustainability able to provide for long term operation and maintenance of facility
- Community and regional support local involvement increases sustainability
- Right-sizing
- Training





Public Comment Needed Visit our website:

www.denali.gov

We welcome your input.

